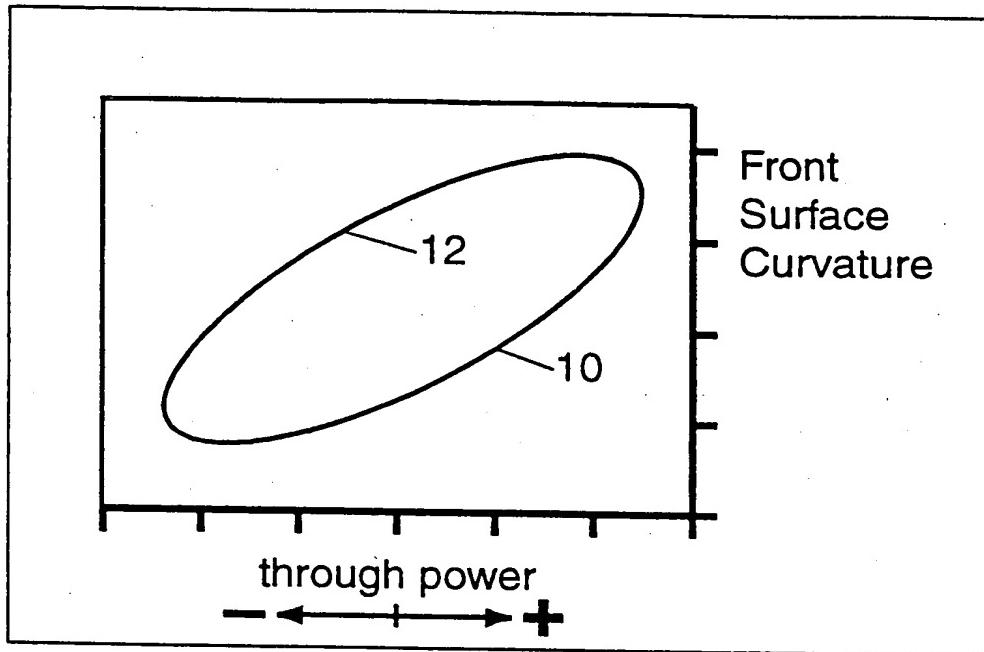
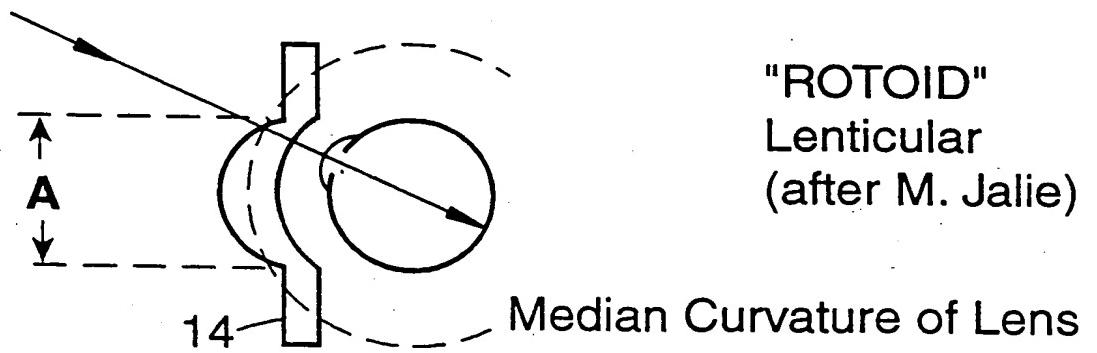


FIGURE 1



A "Tscherning" ellipse

FIGURE 2



PRIOR ART

FIGURE 3

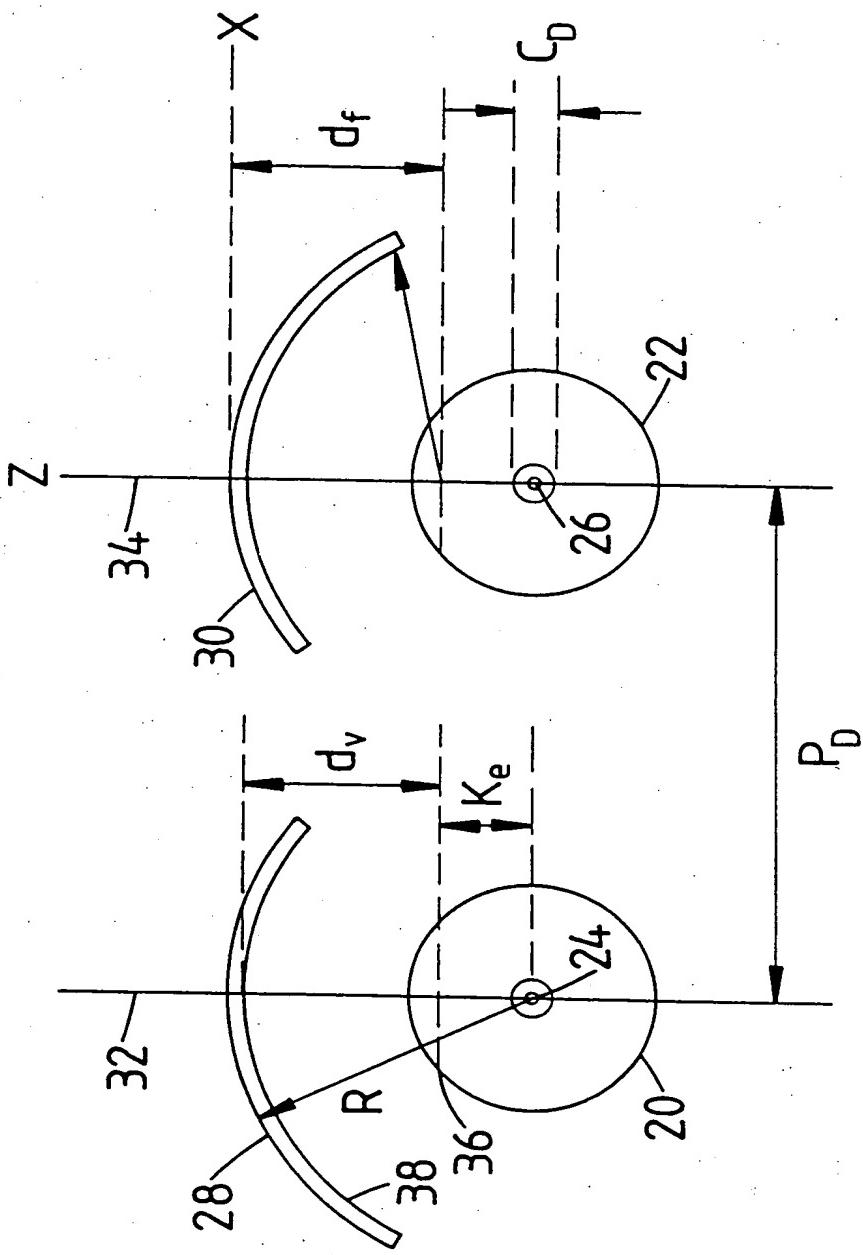


FIGURE 4

**Morris - Spratt
Diagram**

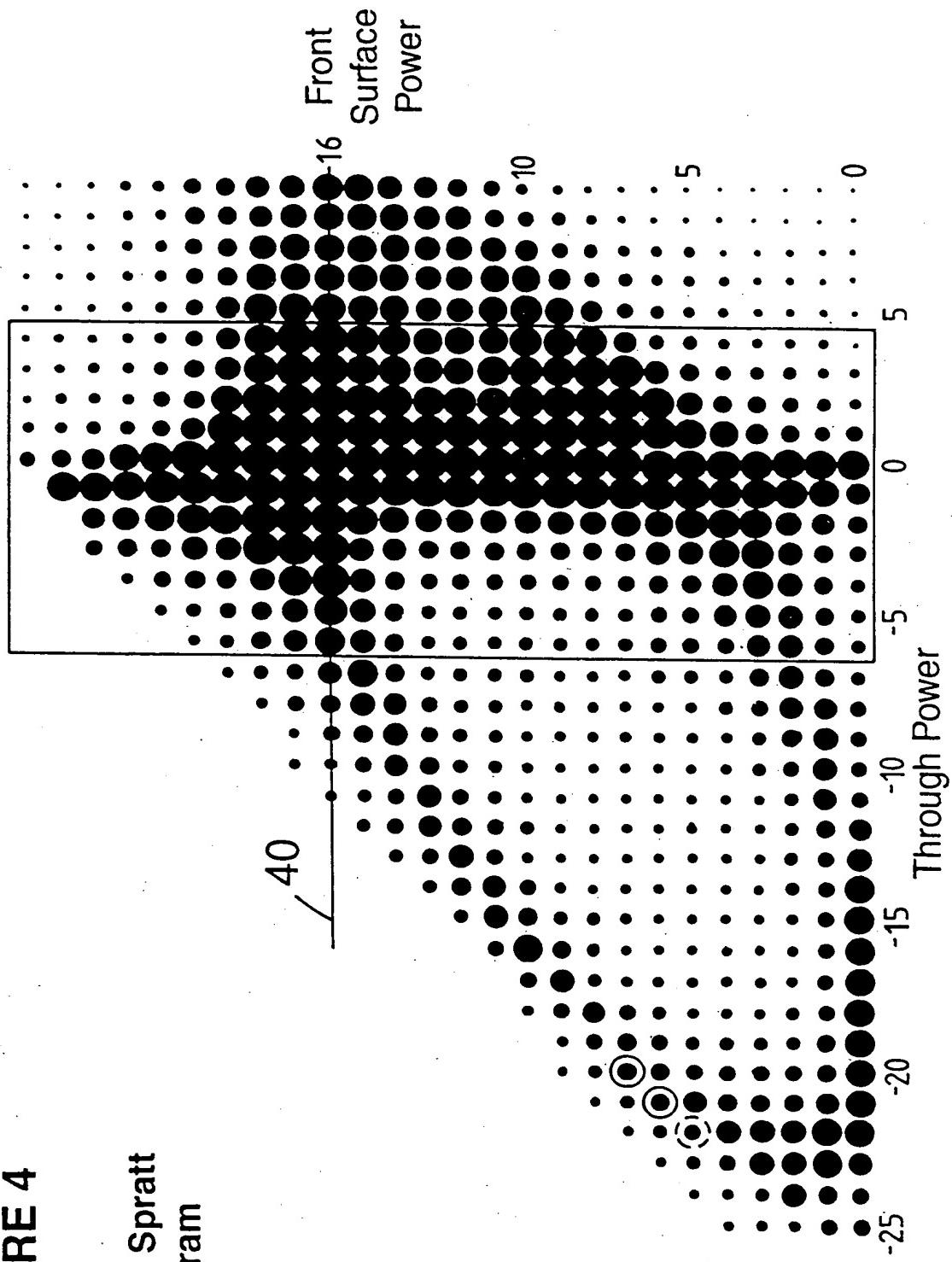


FIGURE 5

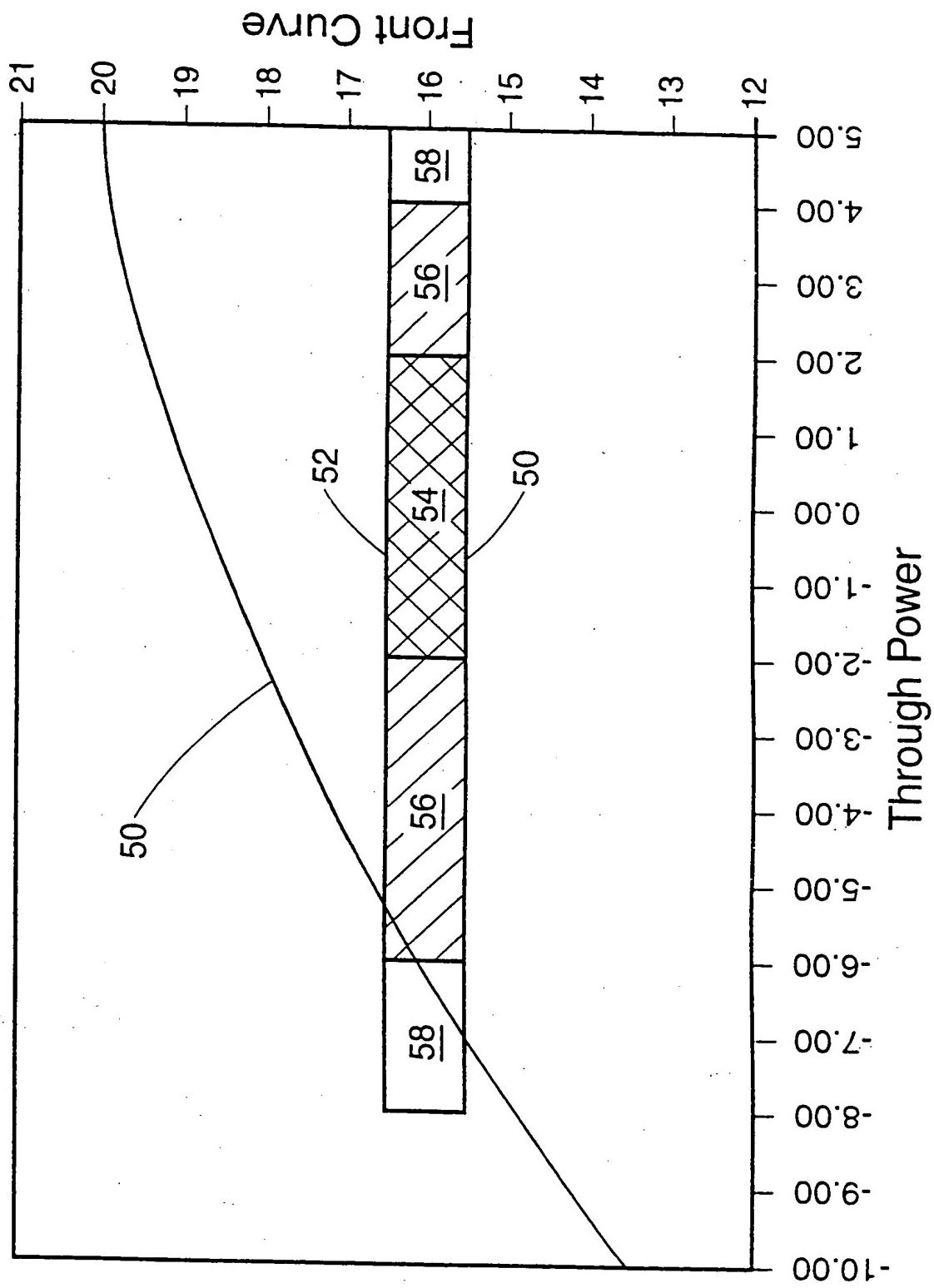


FIGURE 6 (a)

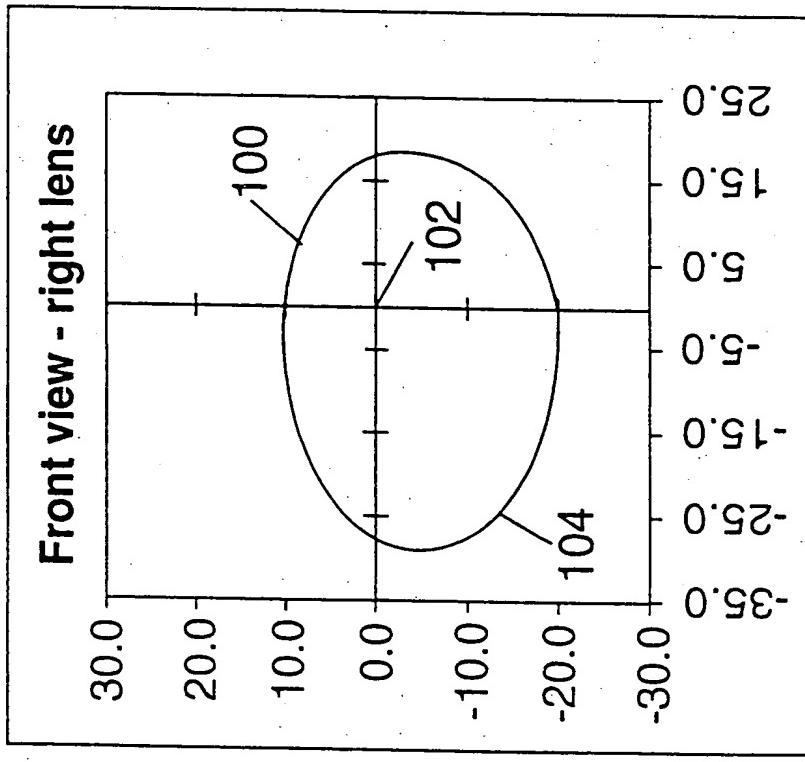


FIGURE 6 (b)

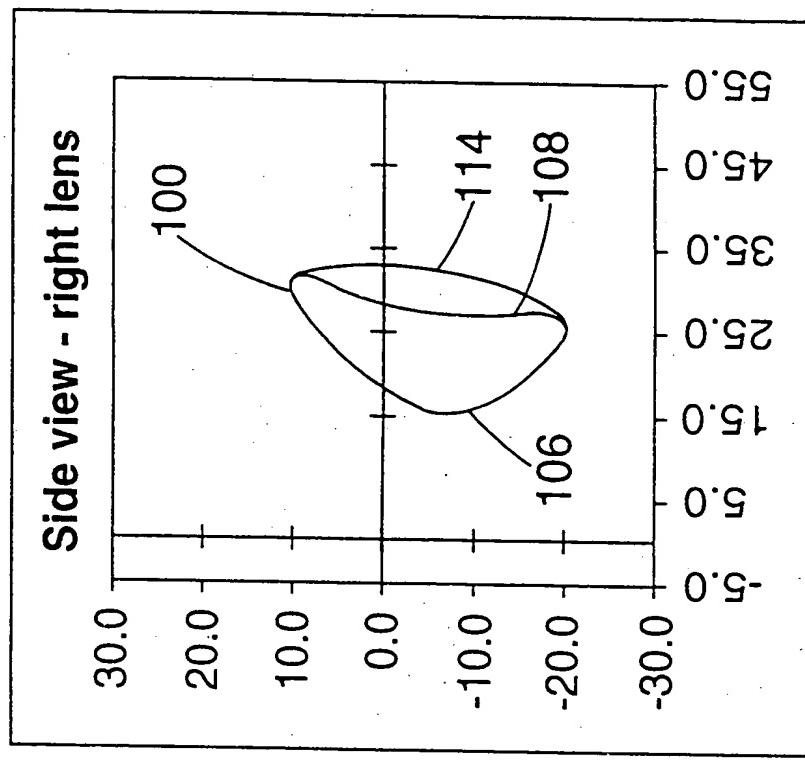


FIGURE 6 (c)

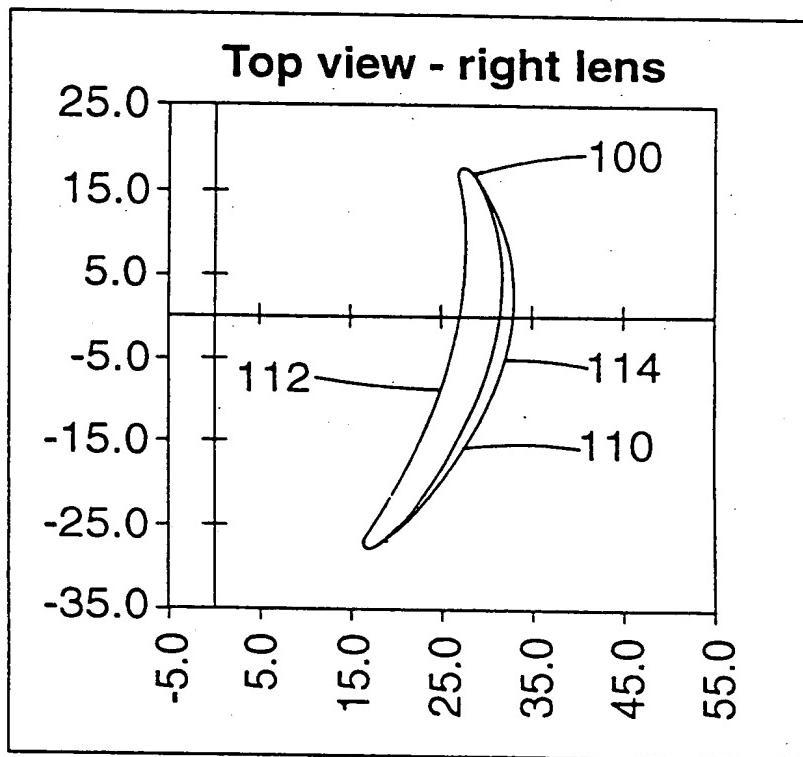


FIGURE 7

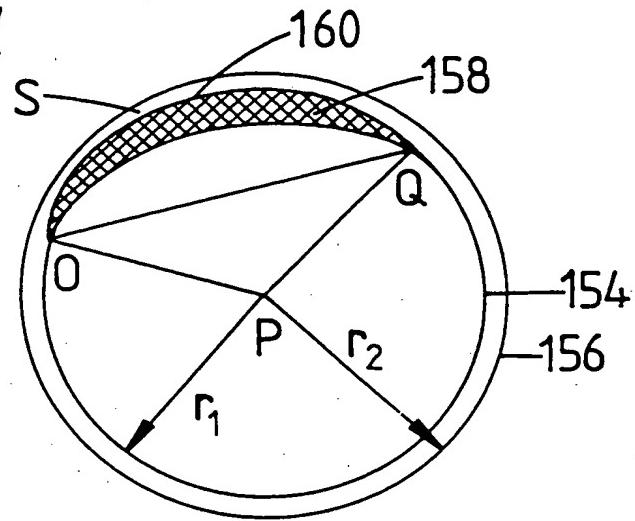


FIGURE 8

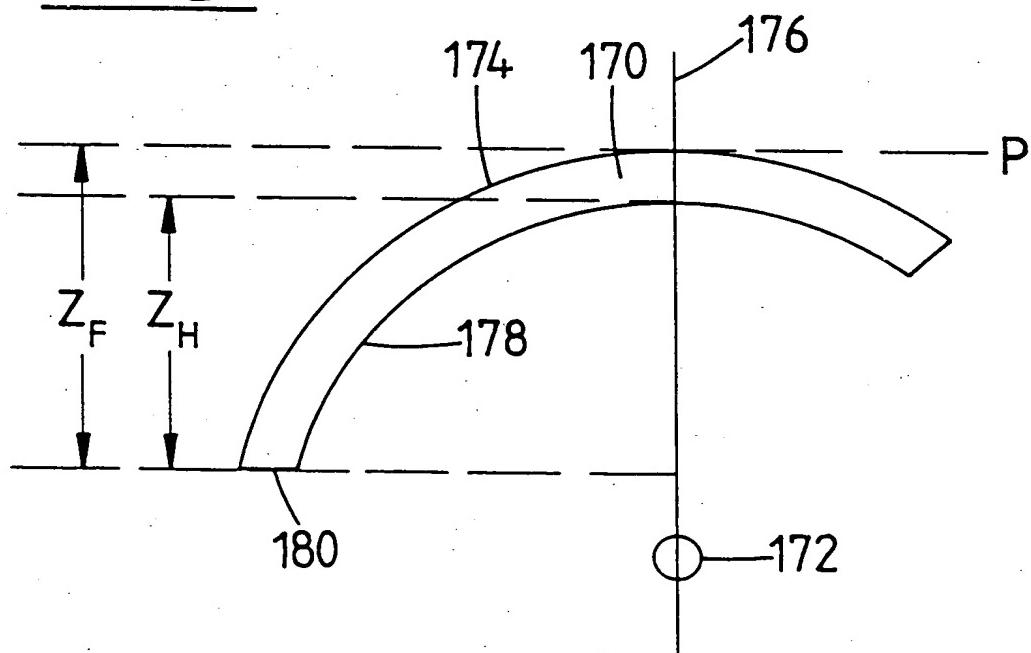


FIGURE 9

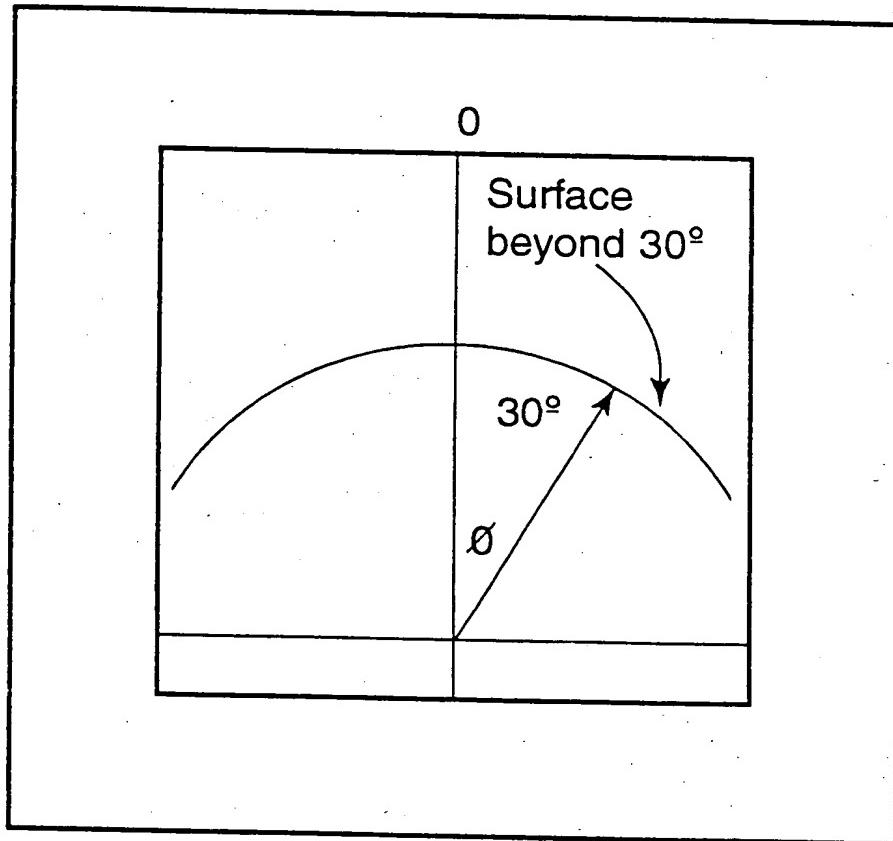
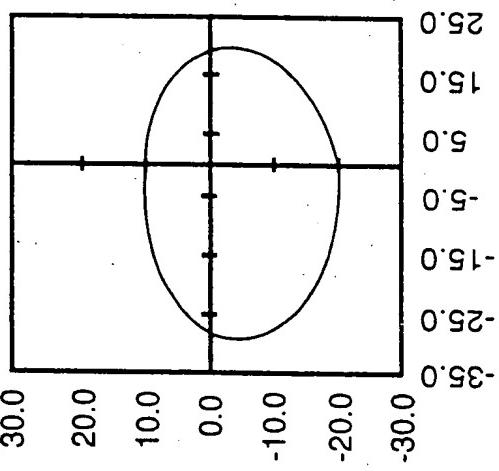
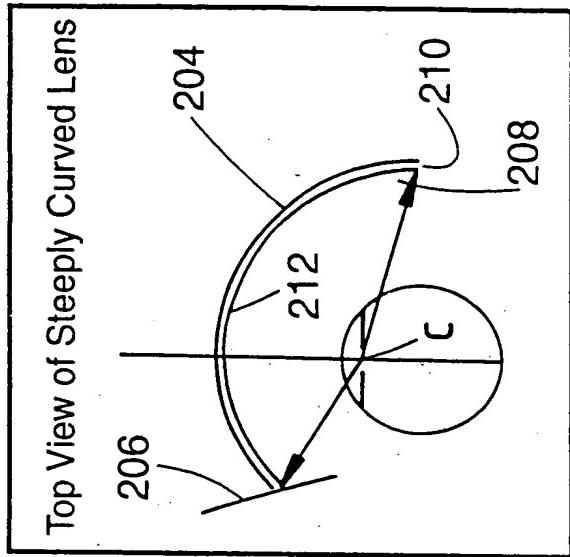


FIGURE 10

(a) Front View of either Lens

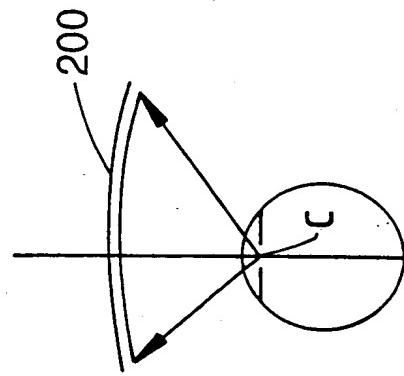


(d) Top View of Steeply Curved Lens



(b)

Top View of 6 Base Lens



(c)

Top View of Steeply Curved Lens

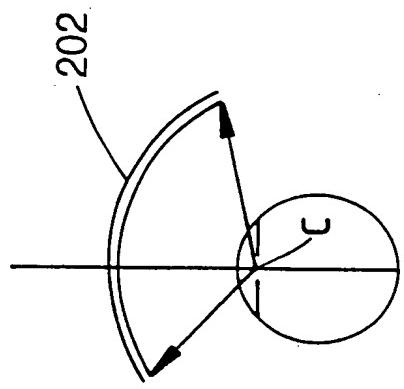


FIGURE 11(a)
surface astigmatism

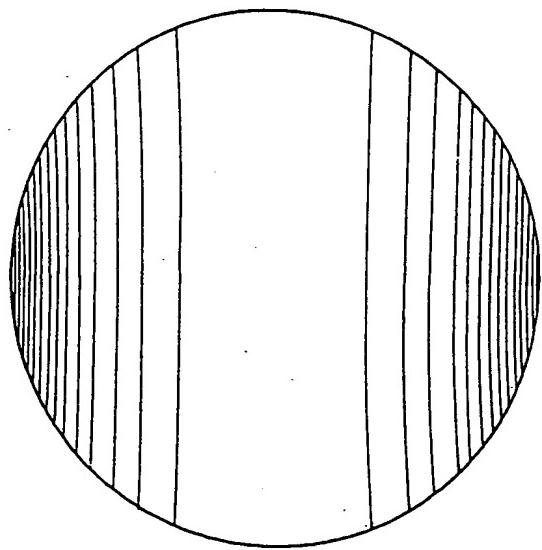


FIGURE 11(b)

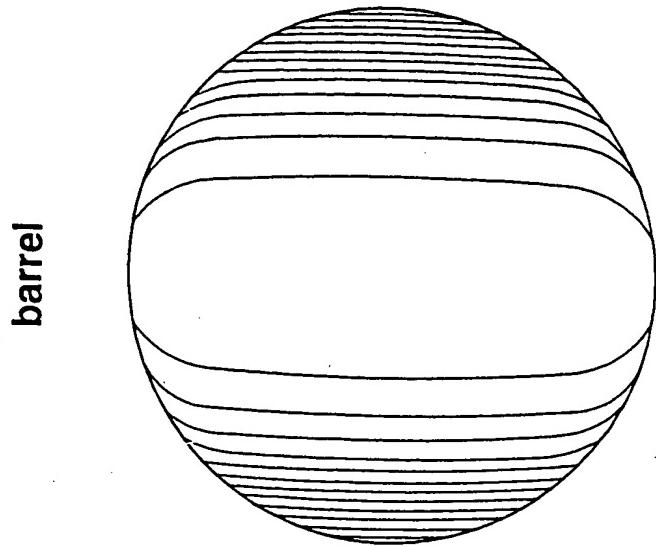
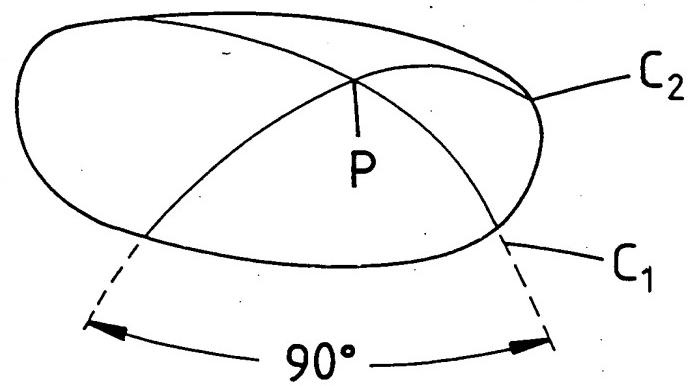


FIGURE 11(c)



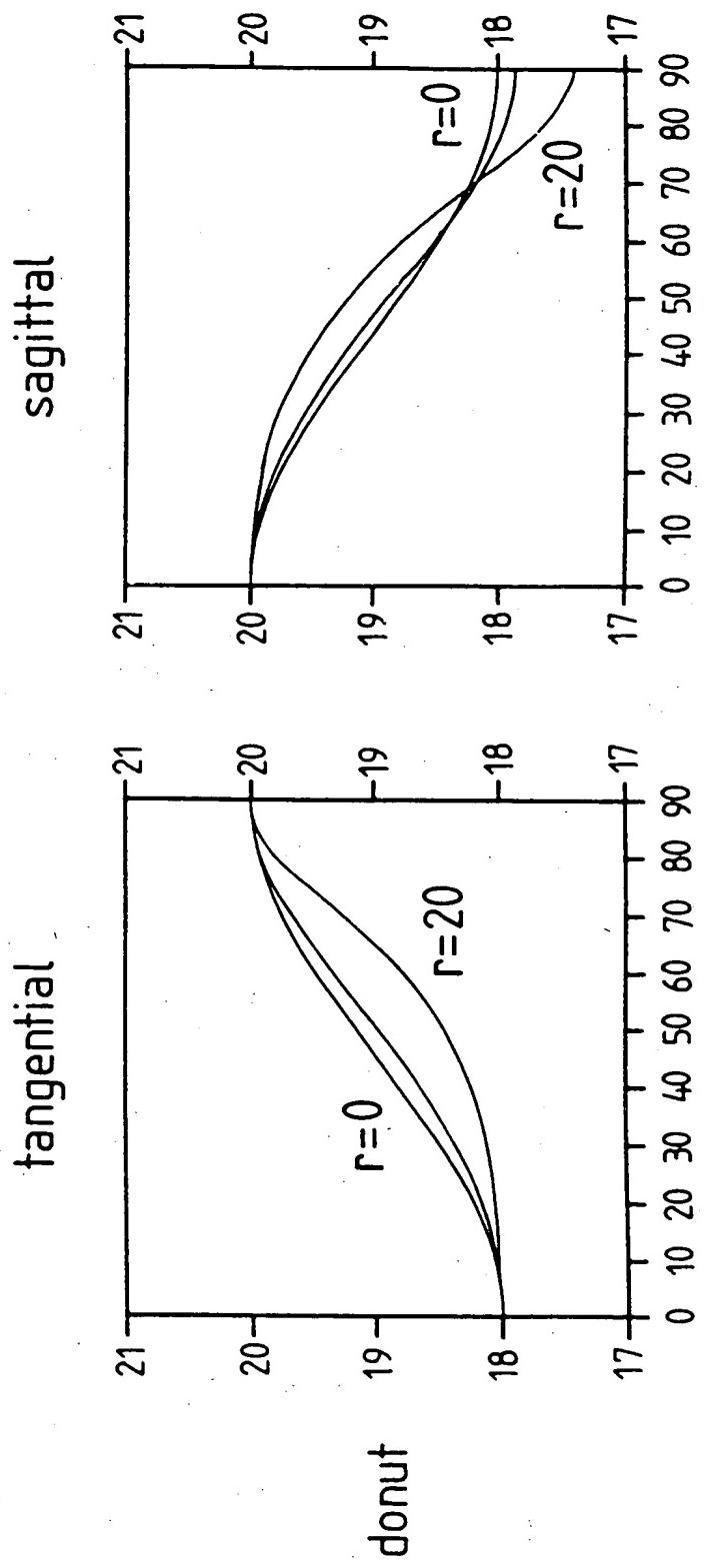


FIGURE 12(b)

FIGURE 12(a)

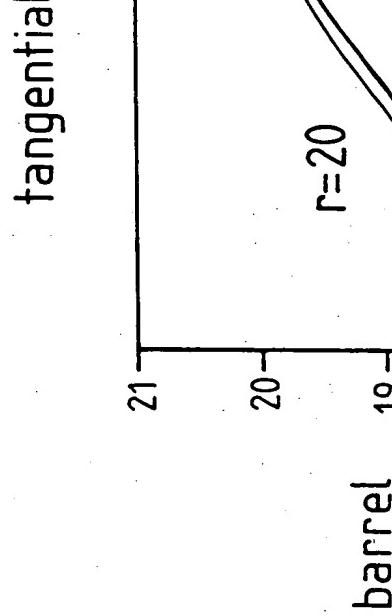


FIGURE 12(c)

sagittal

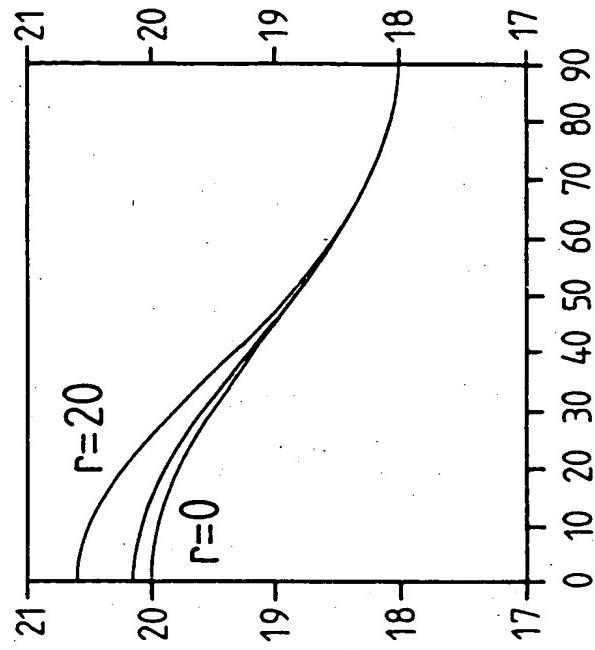


FIGURE 12(d)

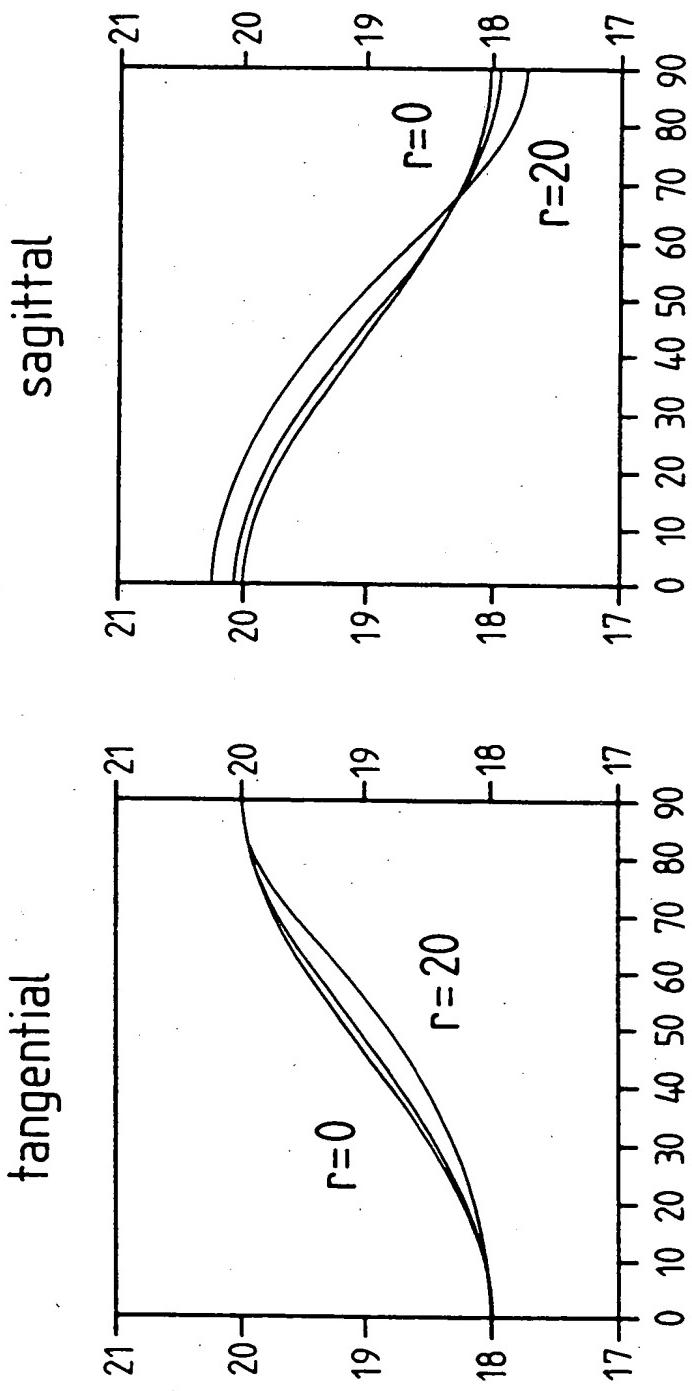


FIGURE 13(a)

FIGURE 13(b)

tangential

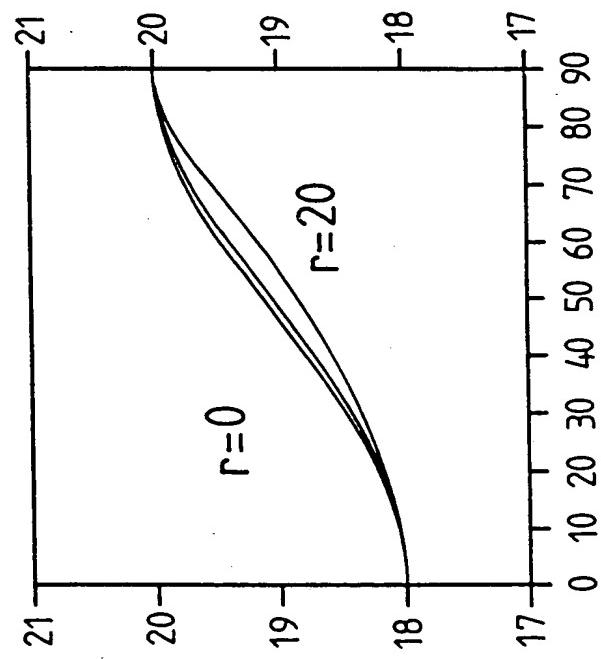


FIGURE 14(a)

sagittal

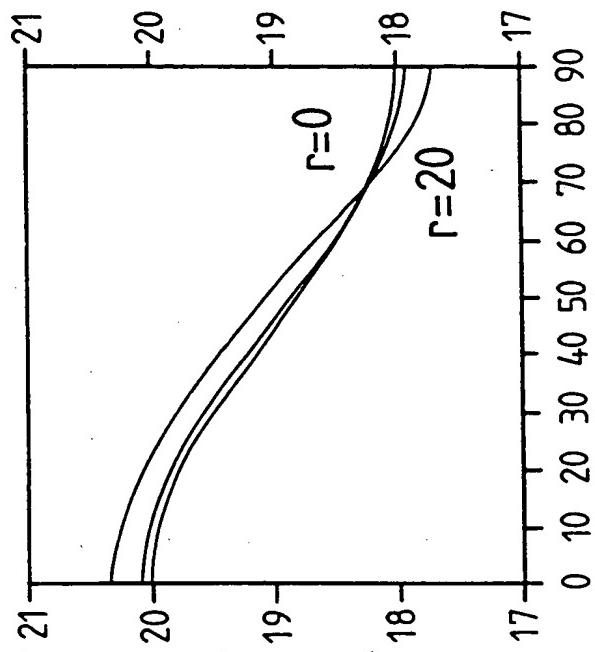


FIGURE 14(b)

FIGURE 15

surface astigmatism
averaged torics
circular meridians

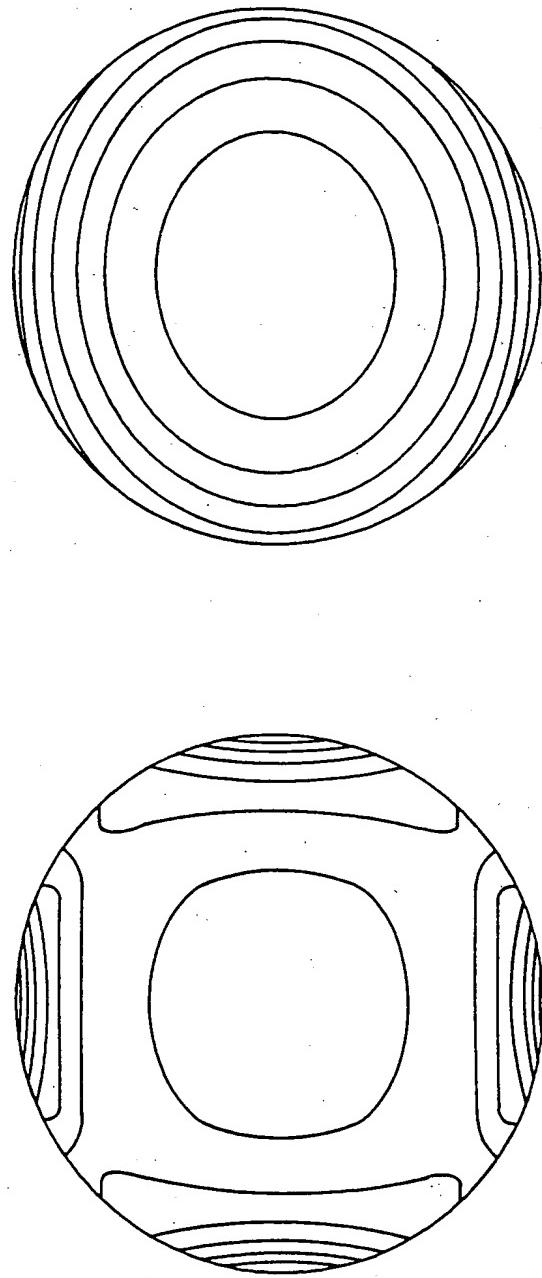


FIGURE 16

surface astigmatism

**circular meridians
one extra coef.**

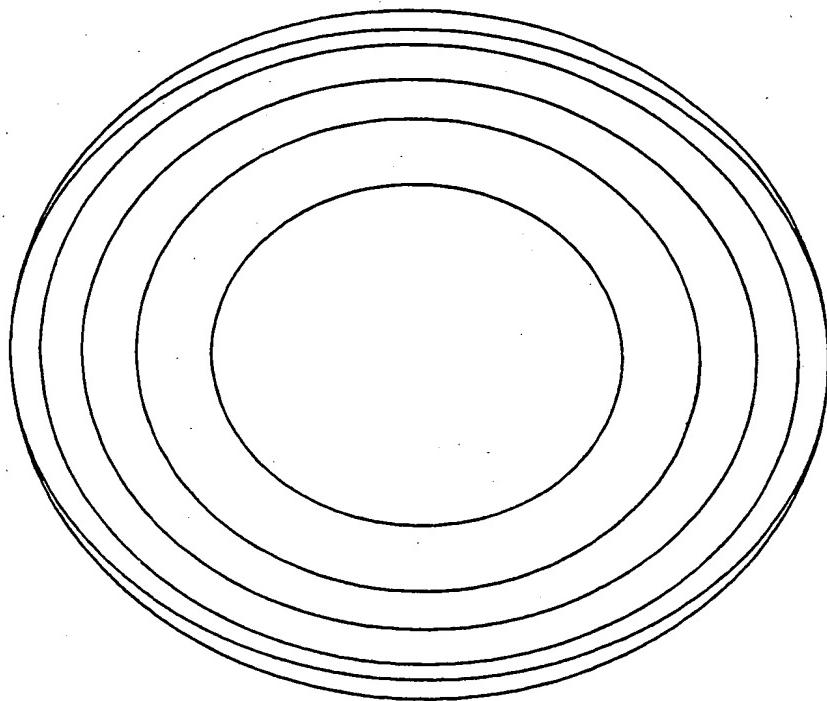


FIGURE 17 (a)

Object Grid

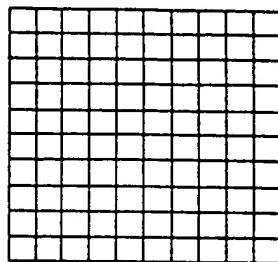


FIGURE 17 (b)

Image through -5.00 Conventional lens

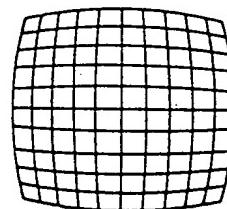
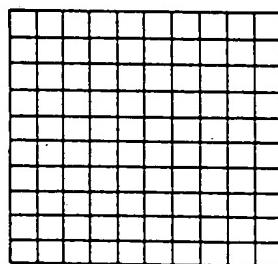


FIGURE 17 (c)

Image through -5.00 Distortion Corrected Lens



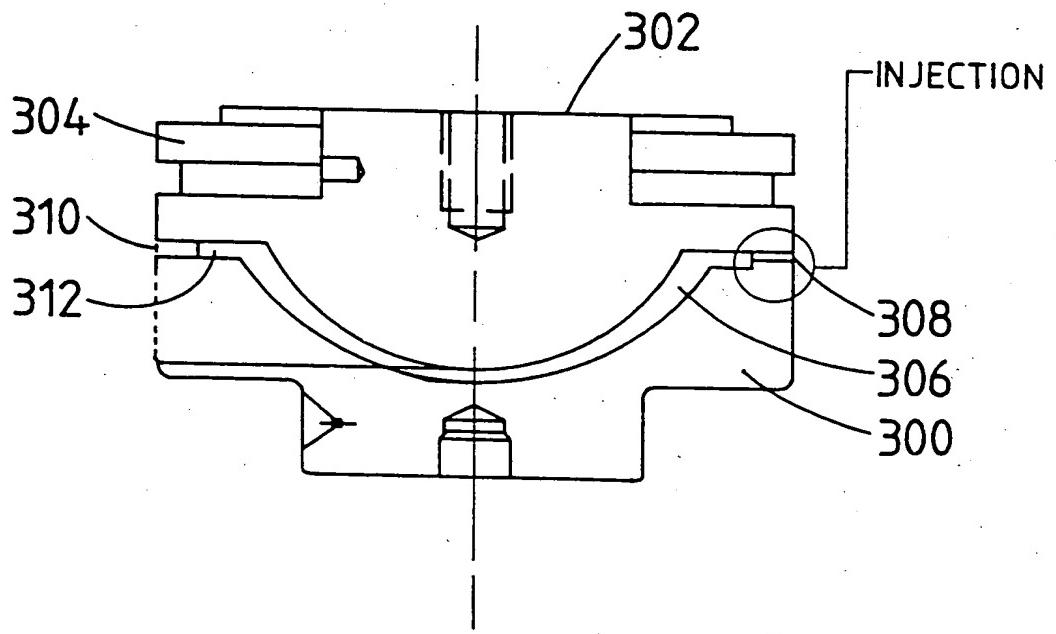


FIGURE 18

FIGURE 19

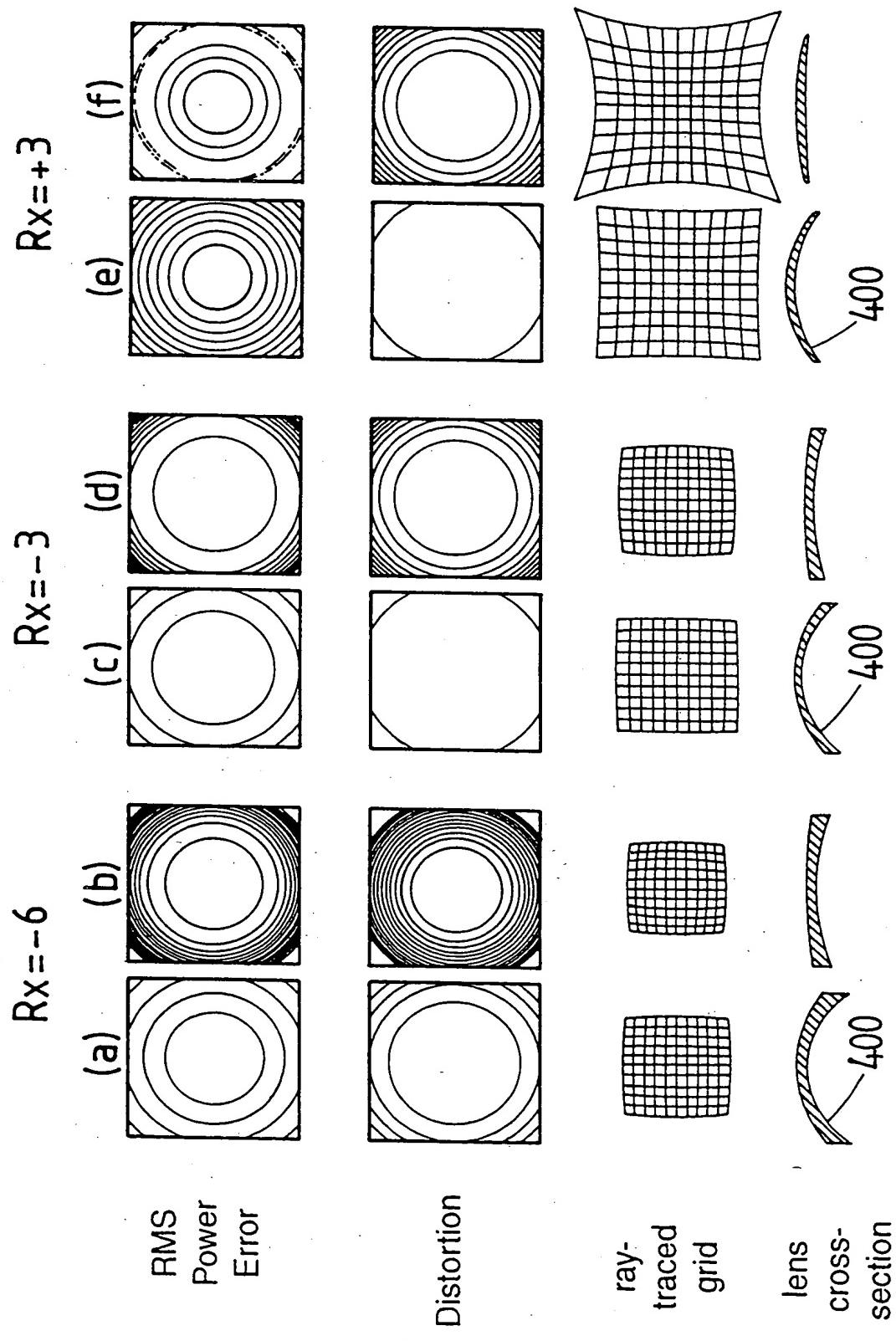
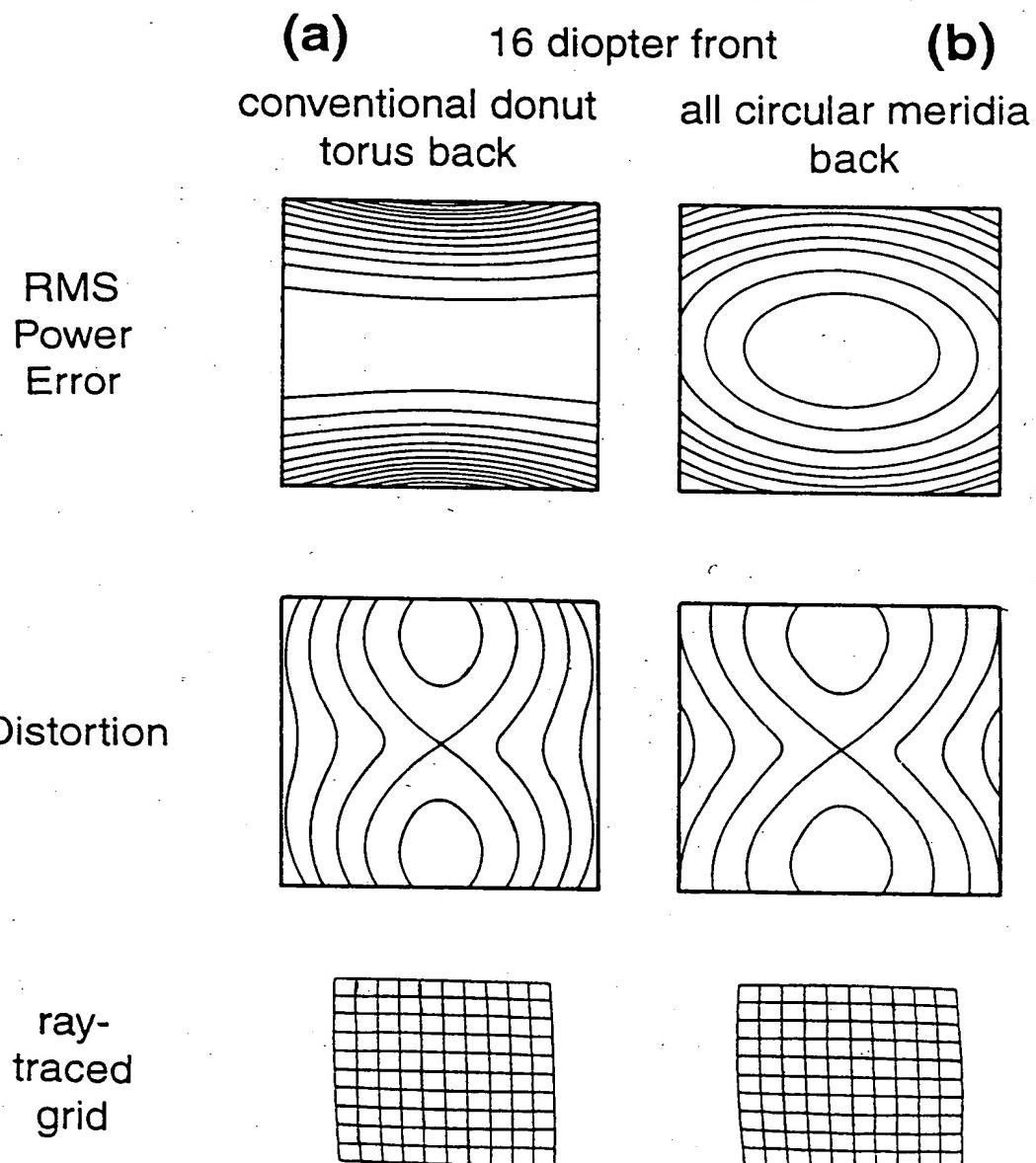


FIGURE 20

$Rx = -3, cyl = -2$

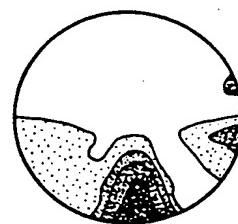
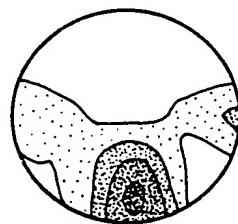


XL Progressive
 $Rx=+2.00\text{ D}$
Distance Vision

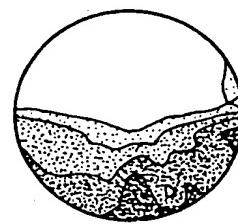
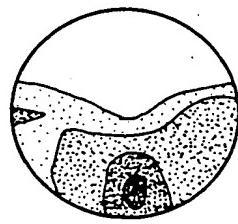
6 Base

Concentric
Spherical Back

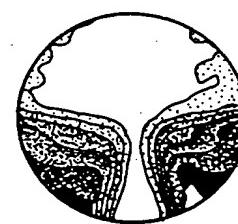
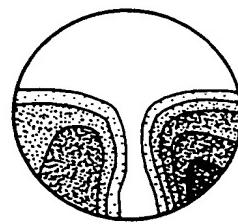
Mean Power
Error



RMS Power
Error



Astigmatism



Lens Form



Lens Data

Progressive Front
Spherical back
Front=6.00D @ 1:530
 $Rx=2.00\text{ D}$
Index= Poly

Progressive Front
Spherical back
Front=16.0 D @ 1.530
 $Rx=2.00\text{ D}$
Index= Poly

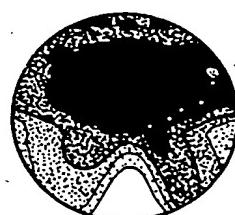
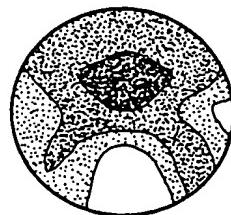
FIGURE 21

XL Progressive
 $Rx = +2.00 D$
Near Vision

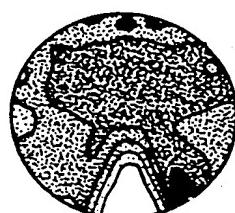
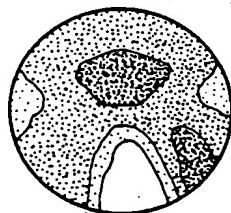
6 Base

Concentric
Spherical Back

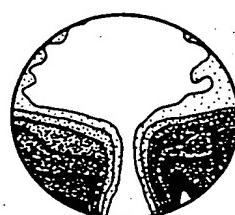
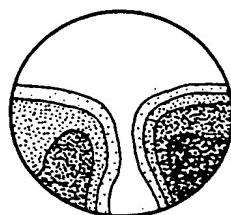
Mean Power
Error



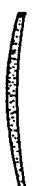
RMS Power
Error



Astigmatism



Lens Form



Lens Data

Progressive Front
Spherical back
Front=6.00D @ 1.530
 $Rx=2.00 D$
Index = Poly

Progressive Front
Spherical back
Front=16.00D @ 1.530
 $Rx=2.00 D$
Index = Poly

FIGURE 22

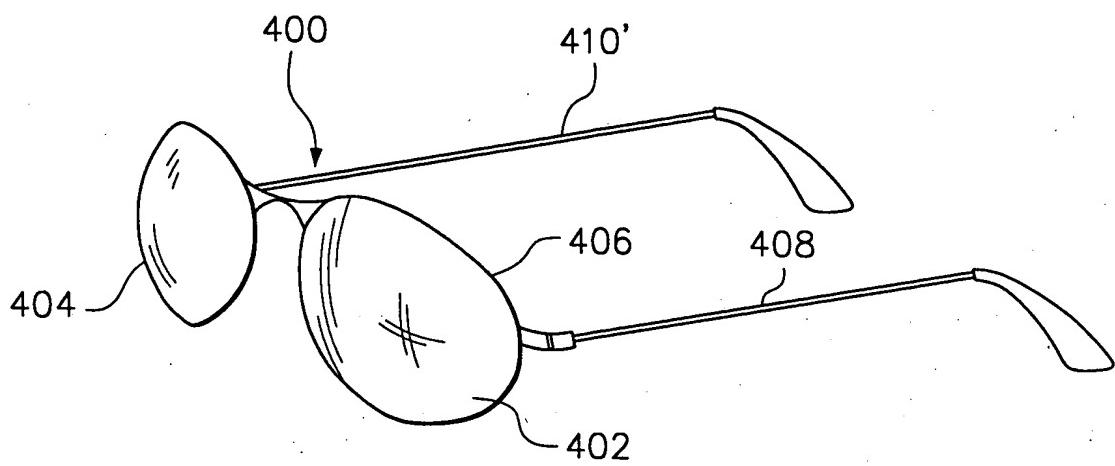


FIGURE 23

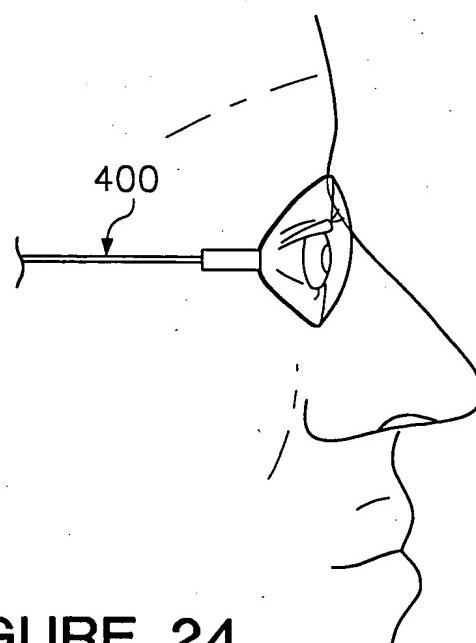


FIGURE 24

FIGURE 25

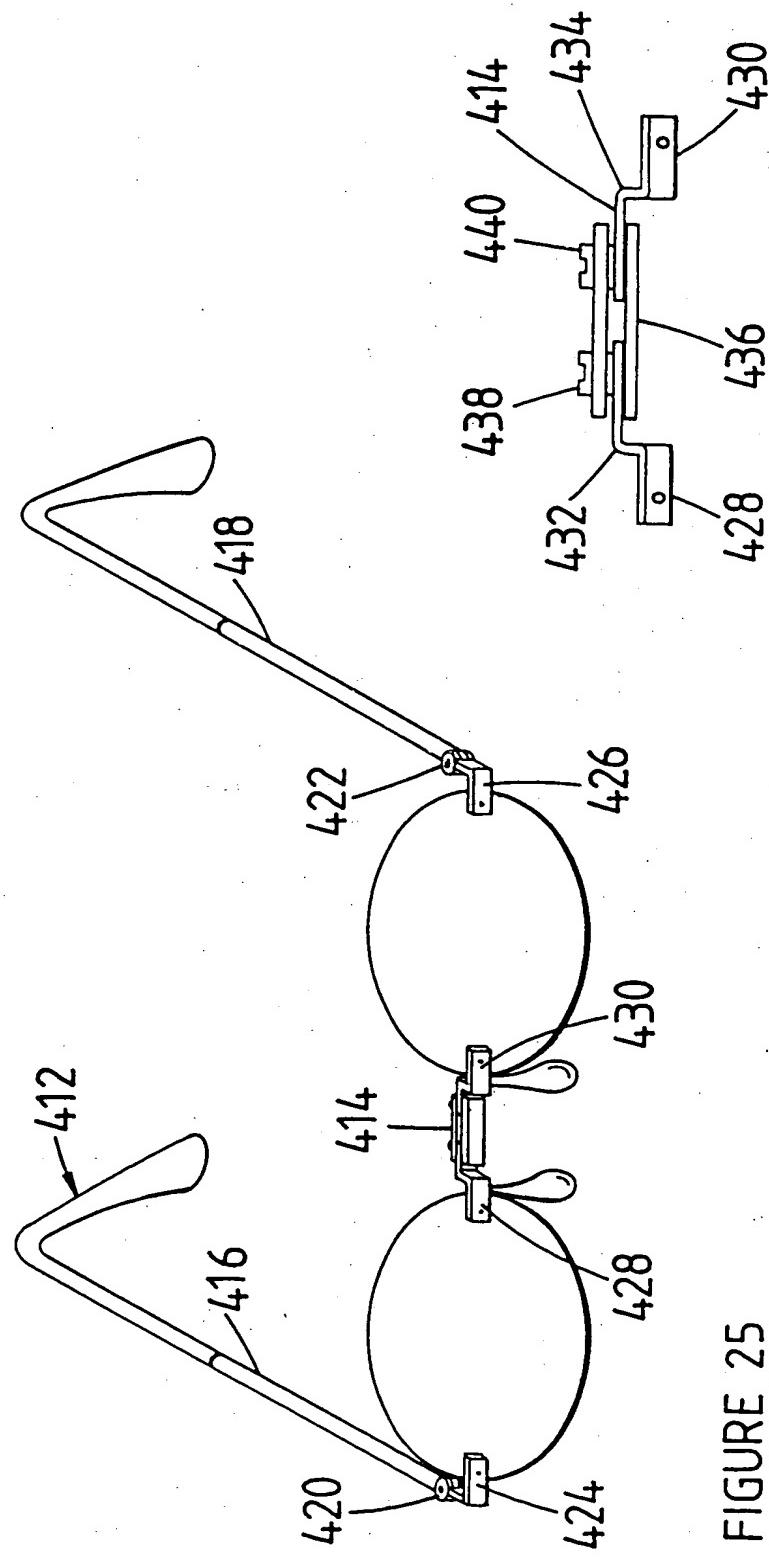


FIGURE 25(a)

FIGURE 26

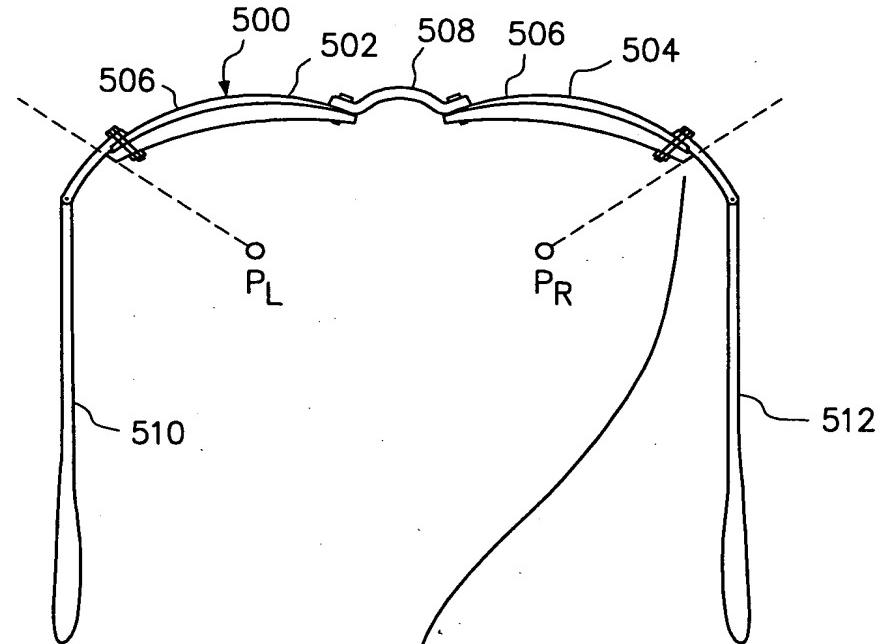


FIGURE 26(a)

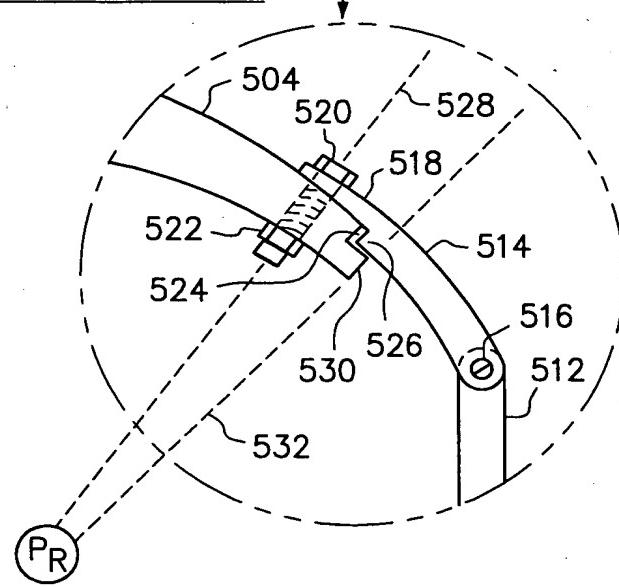


FIGURE 27(a)

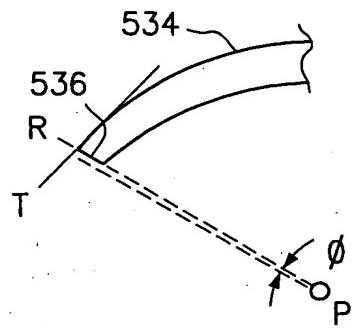


FIGURE 27(b)

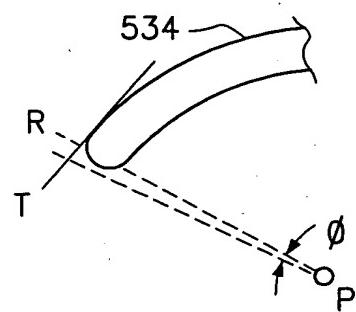


FIGURE 27(c)

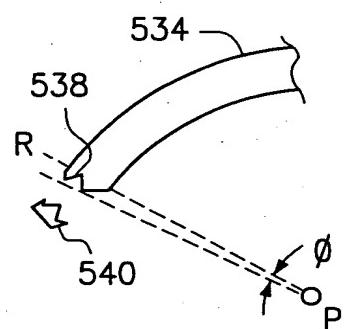


FIGURE 27(d)

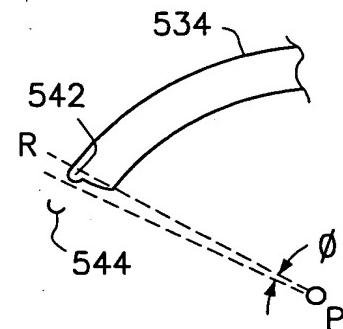


FIGURE 28

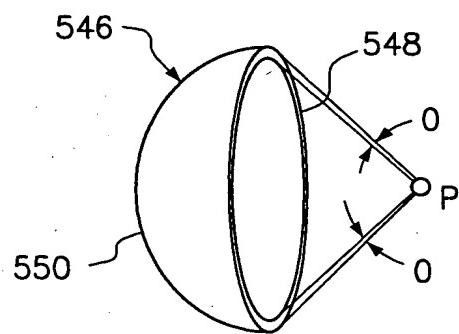


FIGURE 29(a)

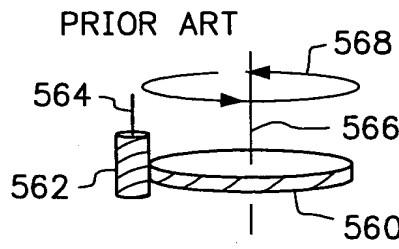


FIGURE 29(b)

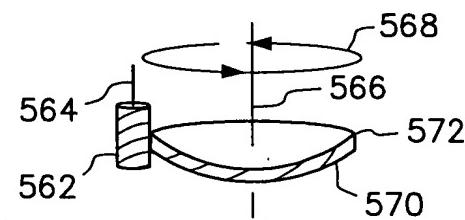


FIGURE 29(c)

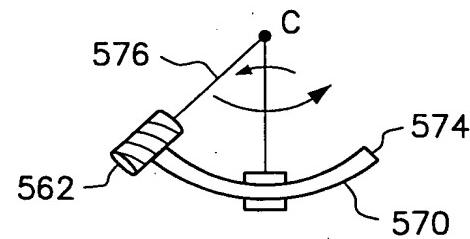


FIGURE 30(a)

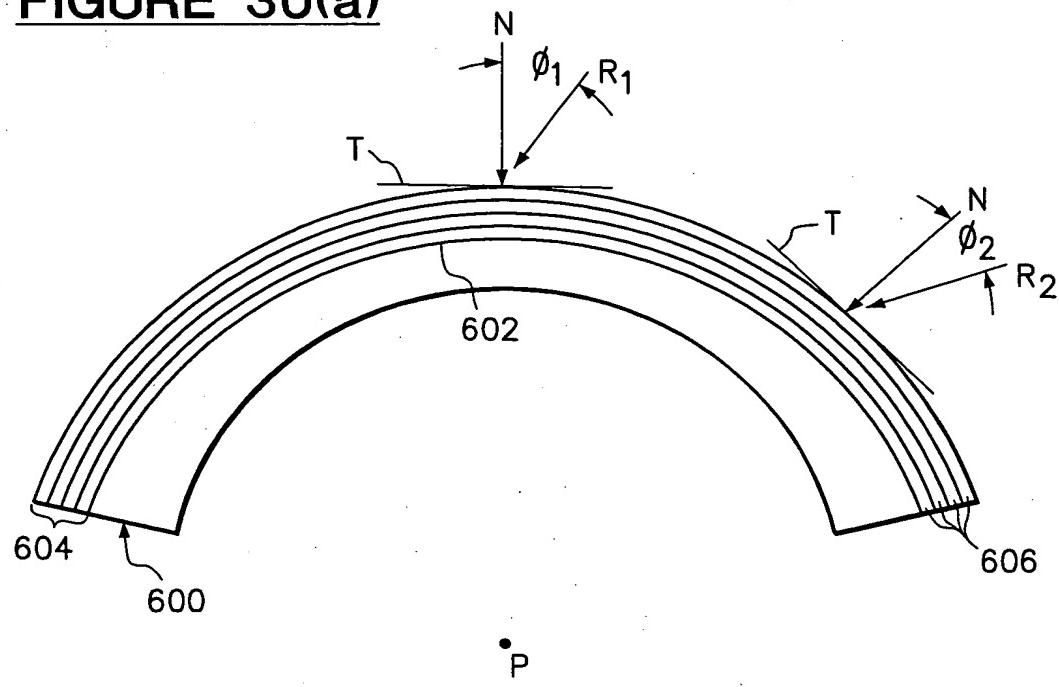


FIGURE 30(b)

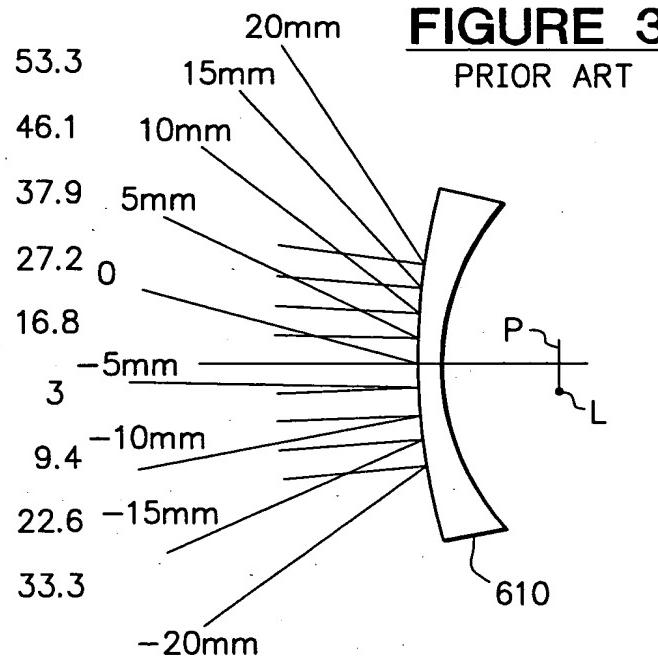


FIGURE 30(c)

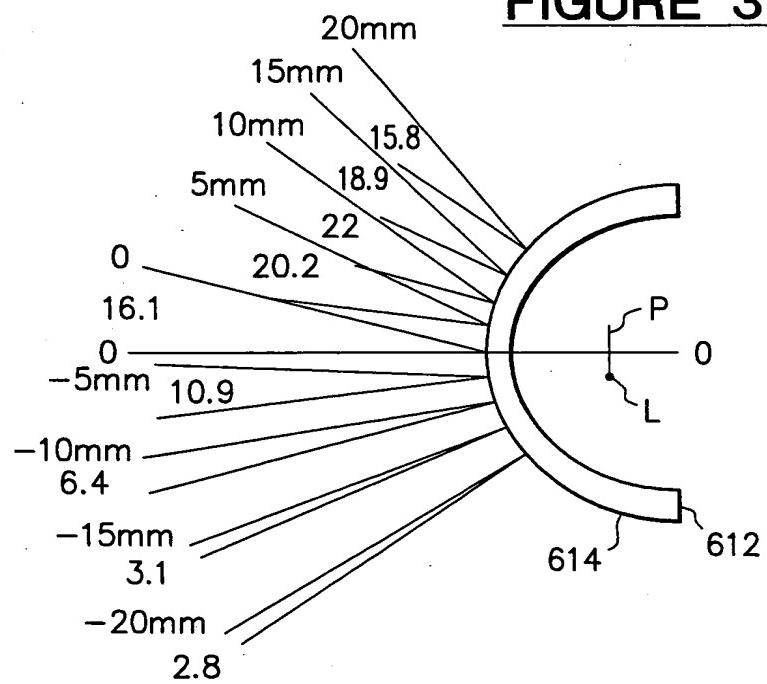


FIGURE 31

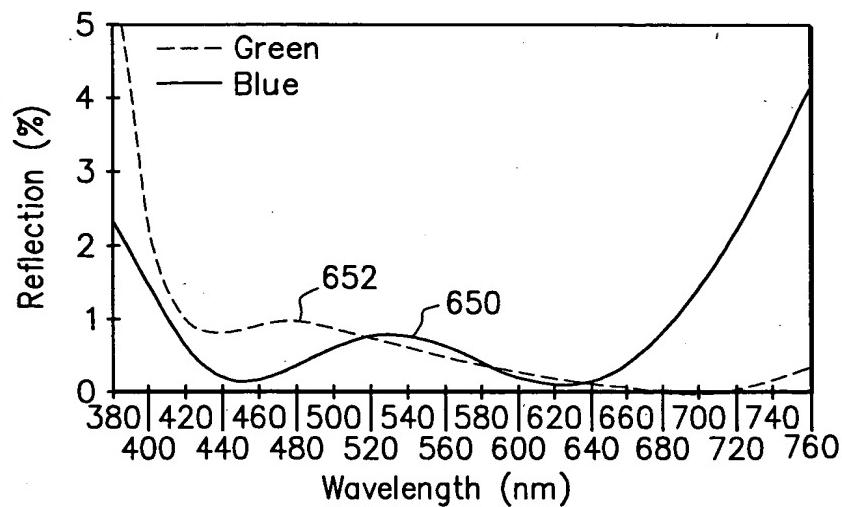


FIGURE 32

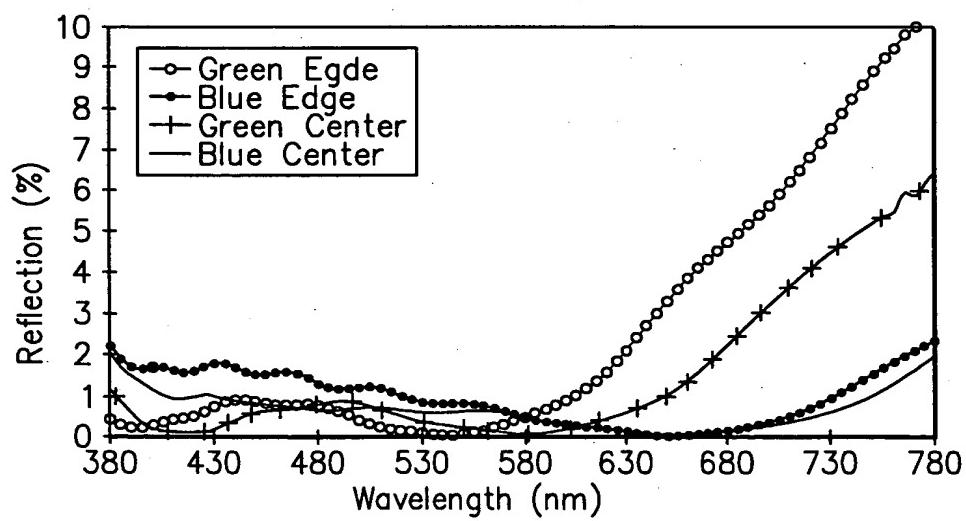


FIGURE 33

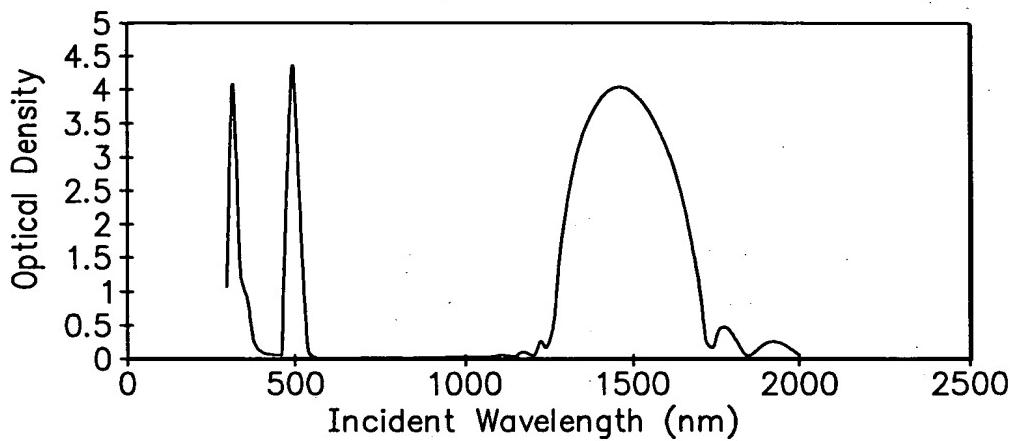


FIGURE 34

